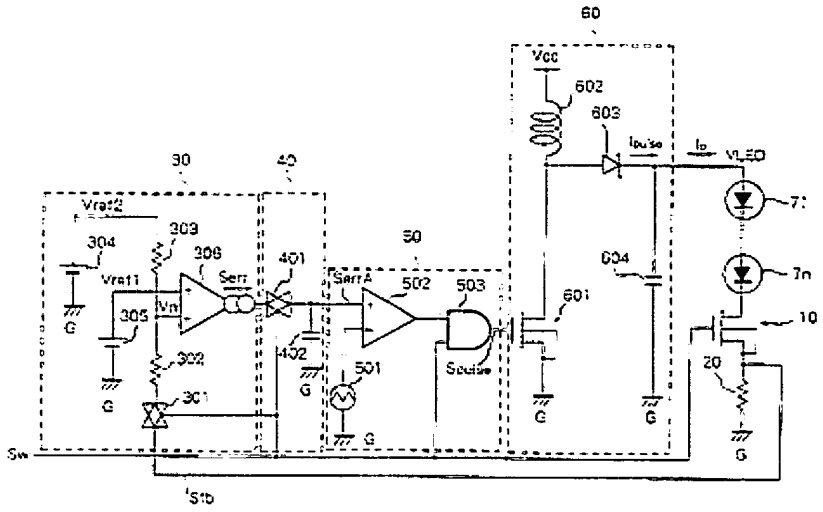
60
Vcc
602
603
Ipulse
Io
VLED
30
40
50
Vref2
304
303
306
Serr
401
SerrA
502
503
Vref1
305
Vn
601
604
302
402
501
Sdrive
20
301
G
Sw
Sfb

FIG. 1

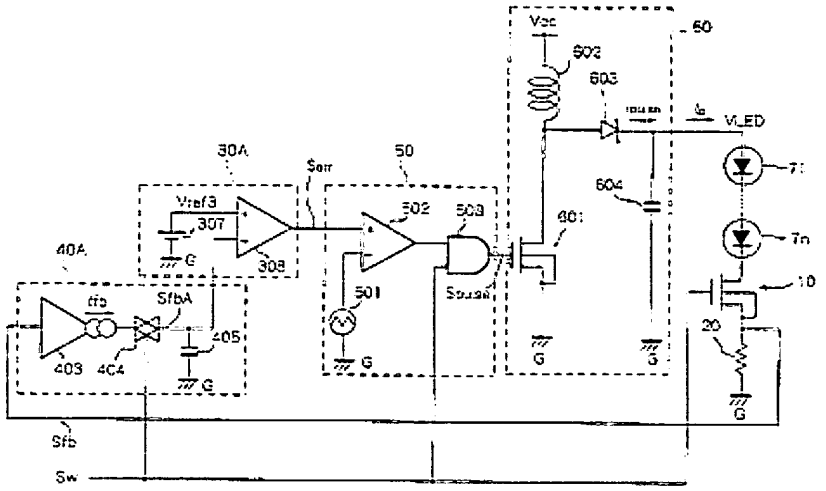
Vcc
60
602
603
Io
VLED
30A
Serr
50
Vref3
307
502
503
604
601
40A
308
501
Sdrive
Sfb
SfbA
403
404
405
20
G
Sw

FIG. 2

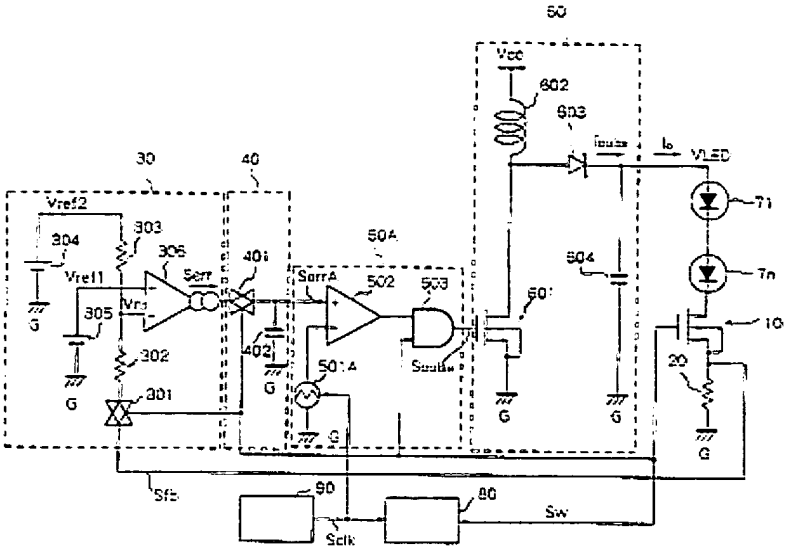
50
Vcc
602
603
Iboost
Io
VLED
30
40
Vref2
303
304
305
306
Vref1
Serr
Vrs
401
402
G
50A
SarrA
502
503
501
Sboost
501A
504
T1
Tn
10
20
90
80
Sw
Sclk
Sfb

FIG. 3

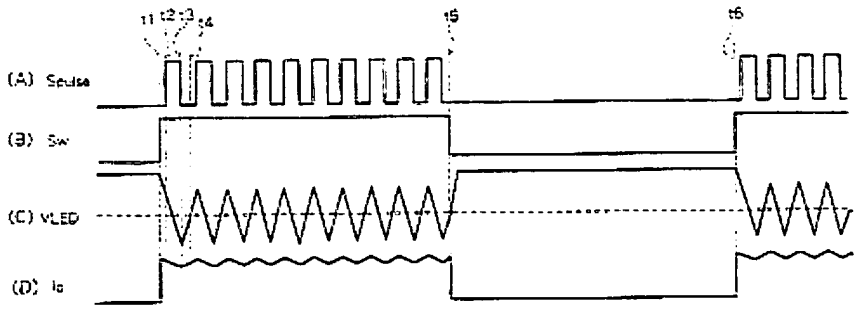
t1
t2
t3
t4
t5
t6
(A) Sboost
(B) Sw
(C) VLED
(D) Io

FIG. 4

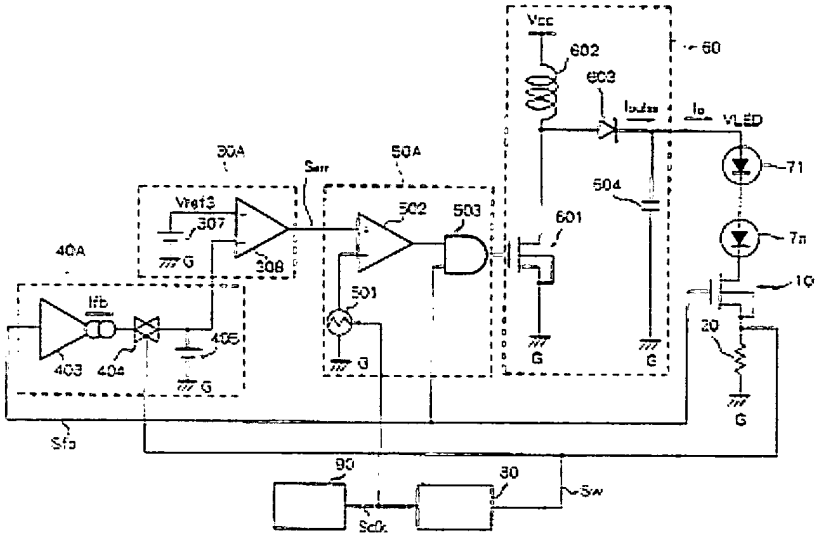
Vcc
602
603
60
VLED
71
7n
1Q
504
601
30A
Sarr
50A
Vref3
307
308
502
503
40A
501
Ifb
403
404
405
G
20
90
30
Sw
Sfb
Sclk

FIG. 5